

1    ABSTRACT OF THE DISCLOSURE

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3    An X-ray topographic system comprises an X-ray  
4    generator producing a beam of X-rays impinging on a  
5    limited area of a sample such as a silicon wafer. A  
6    solid state detector is positioned to intercept the  
7    beam after transmission through or reflection from  
8    the sample. The detector has an array of pixels  
9    matching the beam area to produce a digital image of  
10   said limited area. Relative stepping motion between  
11   the X-ray generator and the sample produces a series  
12   of digital images which are combined together. In  
13   optional embodiments, an X-ray optic is interposed  
14   to produce a parallel beam to avoid image doubling,  
15   or the effect of image doubling is removed by  
16   software.